

Attachment to TS-158611

RELATIVE CAPABILITIES - U-2 AND B-57D

1. The following is a comparison of the capabilities of the U-2 aircraft with which AQUATONE Detachments are equipped and the B-57D aircraft with which the BLACK NIGHT Project is equipped:

		<u>U-2</u>	<u>B-57D</u>
Maximum Range	Nautical Miles	4,200	3,300
Range over Denied Areas	Nautical Miles	3,400	2,400
Altitude at Penetration	Feet	66,000	59,000
Altitude at Exit	Feet	70,000	64,000

2. The following gives some indication of the relative photographic capabilities:

		<u>U-2</u>	<u>B-57D</u>
Coverage with full film load	Nautical Mile		
24" Camera	Flight Line	1875	530
Coverage with full film load	Nautical Mile		
36" Camera	Flight Line	1140 to 1990	420

In addition to the 24" and 36" focal length cameras available for use in the U-2 aircraft, a 180" spotting camera will be operational in approximately four months time for which there is no counterpart useable in the B-57D. It is expected that this camera will have a resolution of up to 60 lines per millimeter.

3. In addition to the above differences in photographic capabilities, the reconnaissance system based on the U-2 aircraft includes subsystems of which no counterparts are carried by the B-57D. The more important are the following:

ELINT receiver and recorder, carried with cameras
VHF receiver and recorder, carried with cameras
Comprehensive automatic ELINT systems, carried in place of cameras